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CONFIRMATION NO. ATTORNEY DOCKET NO. FILING DATE FIRST NAMED INVENTOR APPLICATION NO. Daping Chu 109678 5779 09/866,740 05/30/2001 **EXAMINER** 25944 7590 03/29/2004 OLIFF & BERRIDGE, PLC ADDISON, KAREN B P.O. BOX 19928 **ART UNIT** PAPER NUMBER ALEXANDRIA, VA 22320 2834

DATE MAILED: 03/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	/ K	
Office Action Summary	Application No.	Applicant(s)
	09/866,740	CHU, DAPING
	Examiner	Art Unit
	Karen B Addison	2834
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period was - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 12/19	<u>9/03</u> .	
2a) This action is FINAL. 2b) This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
 4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 10.	epted or b) objected to by the ldrawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Linterview Summary Paper No(s)/Mail Da	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/9/03.		Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-2,6-7,11-15 rejected under 35 U.S.C. 102b) as being Butcher (GB 2284298).

Lee discloses in fig.8, 11, 3 a device comprising: a piezoelectric material layer and a ferroelectric material (3,2,1) clamp together (62), the ferroelectrics material layer having a predetermined direction of polarization (represented by the arrow in fig.8 and 23); and means for providing an input signal to one layer for causing an induced output signal from the other layer without causing a change in the predetermined direction or polarization, the induce out- put signal from the other layer and having a phase determine by the predetermined direction of polarization. Lee disclose the electrodes one the top, bottom and sides of each laminate layers. Wherein the common electrode is provided between the three layers, the input electrode is provided on the top layer of the ferroelectric layer (3) and the output electrode is provided on the bottom of the piezoelectric layer (1). The method is inherent base on the structural limitations of the claims.

With respect to claims 3-5 and 8-10, no structural limitation has been added to these claims. See MPEP 2111.02.

Response to Arguments

3. Applicant's arguments filed 12/19/03 have been fully considered but they are not persuasive.

Applicant's argument that Lee fails to disclose that the induced output signal has a phase, which is determined by the predetermined direction of polarization of the ferroelectric layer, is noted.

However, Lee clearly shows in fig. 8 and 23 an input voltage signal causing an output signal on layer 1 which has a phase which is determined by the predetermined direction of the polarization (arrow) of the ferroelectric layer (3). See col.41 lines 1-49 and col. 37 line44-52).

Applicant requests the Patent Office to clarify the status of claims 3-5 and 8-12 in the next Office Action is noted. See MPEP 2111.02

The recitation that the device is a transformer, amplifier or inverter has not been given patentable weight because it has been held that a preamble is denied the effect of a limitation where the claim is drawn to a structure and the portion of the claim following the preamble is a self-contained description of the structure not depending for completeness upon the introductory clause. Kropa v. Robie, 88 USPQ 478(CCPA 1951)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen B Addison whose telephone number is 571-272-2017. The examiner can normally be reached on 8:00 to 4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1317. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KBA 3/18/04 BURTON S. MULLINS PRIMARY EXAMINER